

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 365TTGS16577
Catalog No: E571
50,1200,EPFC,365T,3/60/230/460
Explosion Proof



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REGAL[®]



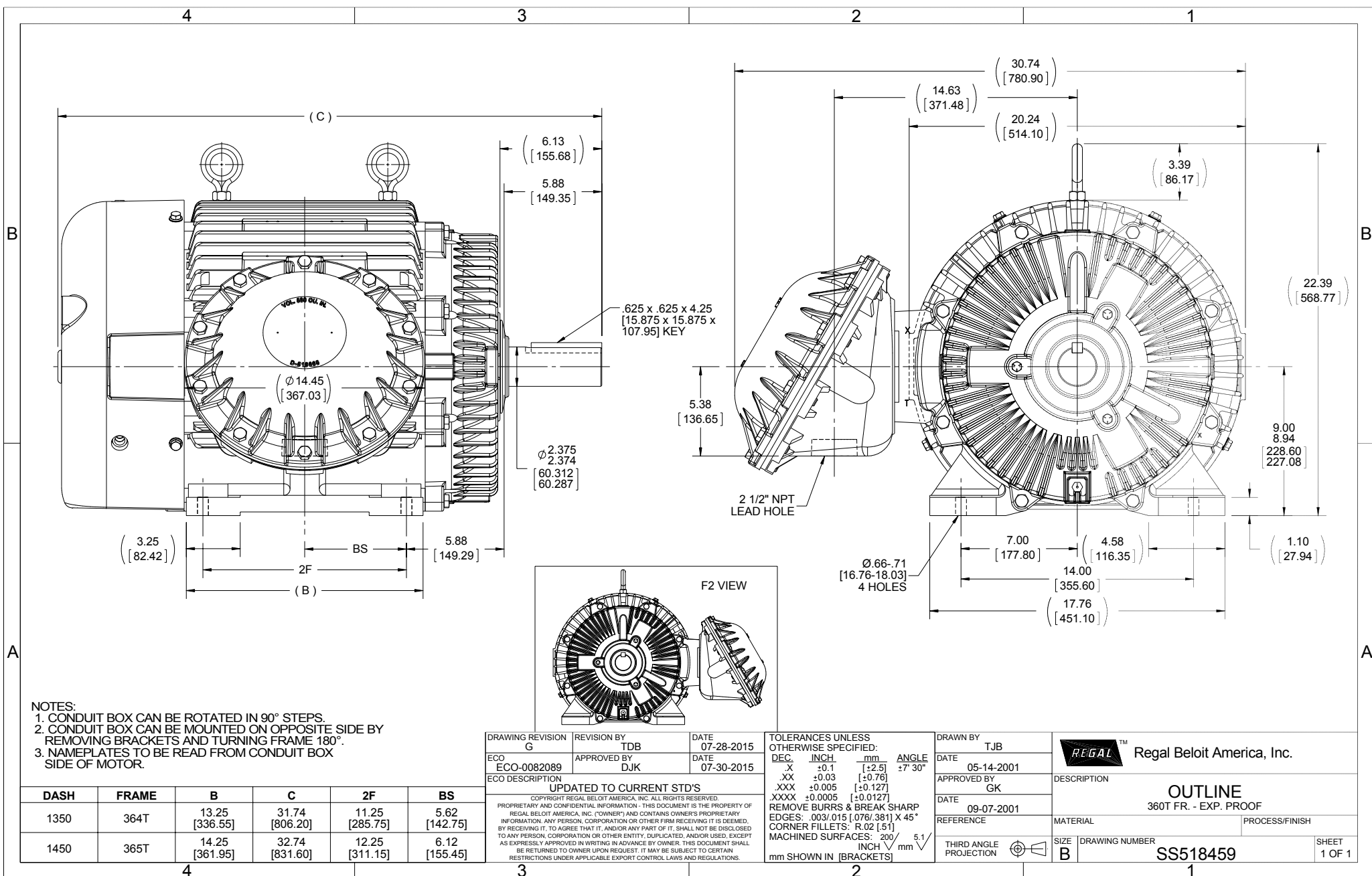
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	123.0/61.5 A	Speed	1182 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	365T
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6314
Opp Drive End Bearing Size	6312	UL	No
CSA	N	CE	N
IP Code	54		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	32.74 in	Frame Length	14.50 in
Shaft Diameter	2.375 in	Shaft Extension	6.12 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS518459-1450	Connection Diagram	A-EE7308T

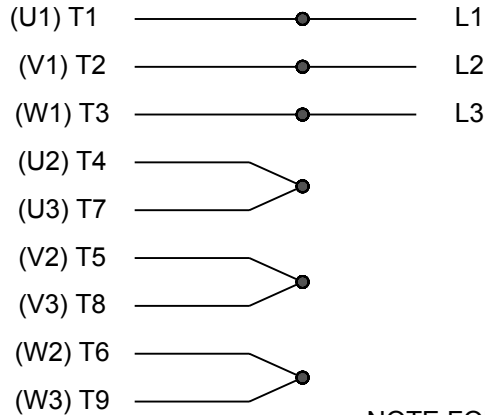
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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

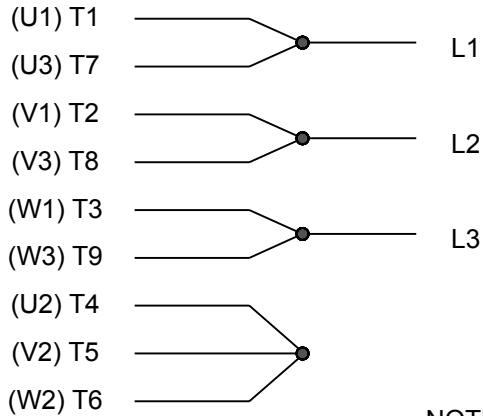
DRAWING REVISION G	REVISION BY TDB	DATE 07-28-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE X +0.1 [+2.5] ±7-30° XX ±0.03 [+0.76] .XXX ±0.005 [+0.127] XXXX ±0.0005 [+0.0127]	DRAWN BY TJB	REGAL™ Regal Beloit America, Inc.						
ECO ECO-0082089	APPROVED BY DJK	DATE 07-30-2015	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/3.81] X 45° CORNER FILLETS: R.02 [51]	DATE 05-14-2001	DESCRIPTION OUTLINE 360T FR. - EXP. PROOF						
ECO DESCRIPTION UPDATED TO CURRENT STD'S COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			MACHINED SURFACES: 200 5.1 INCH/mm mm SHOWN IN [BRACKETS]	APPROVED BY GK		MATERIAL PROCESS/FINISH					
DASH	FRAME	B	C	2F	BS	DATE 09-07-2001	REFERENCE	THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS518459	SHEET 1 OF 1
1350	364T	13.25 [336.55]	31.74 [806.20]	11.25 [285.75]	5.62 [142.75]						
1450	365T	14.25 [361.95]	32.74 [831.60]	12.25 [311.15]	6.12 [155.45]						

HIGH VOLTAGE



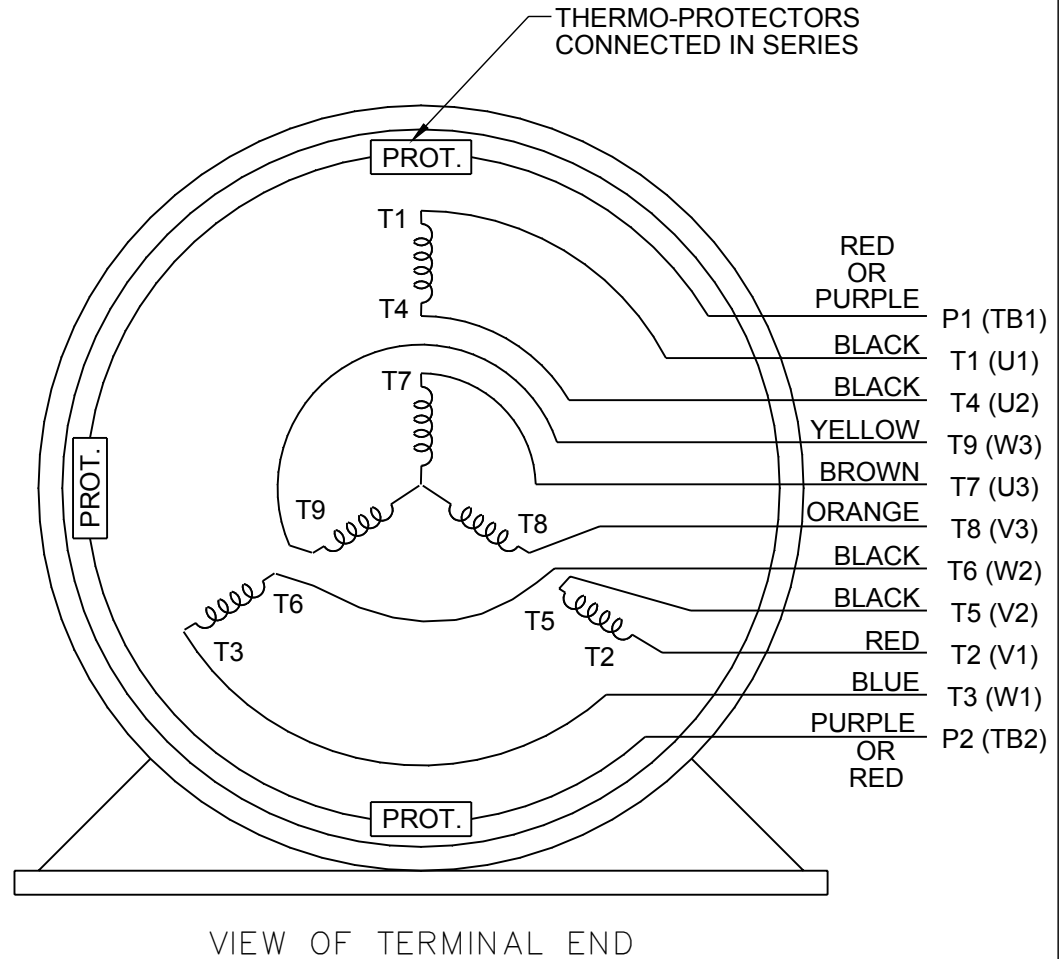
**NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1**

LOW VOLTAGE



NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

THREE PHASE DUAL VOLTAGE MOTOR



DRAWING REVISION R	REVISION BY AJW	DATE 07-17-2015		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015		DATE 05-13-1992	
ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL
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			REFERENCE EE7308/EE7300	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308T

Data Sheet

365TIGS16577



Date: 6/19/2017
 Customer:
 Attention:
 Submitted by: FAREEDA DUDEKULA

365TIGS16577
 Submittal
 Data @ 460 V

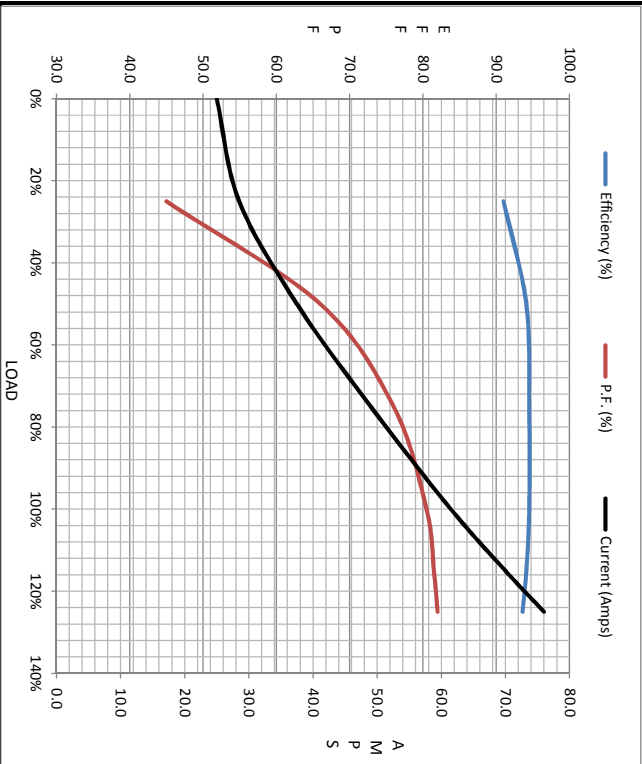
Load	Motor Load Data							
	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	25.0	28.5	37.5	49.0	61.5	70.0	76.0	362
Torque (ft-lb)	0.00	55.0	110	166	222	256	280	445
RPM	1200	1195	1192	1188	1182	1,178	1175	0
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6	
P.F. (%)	4.0	45.0	66.0	76.0	80.5	81.5	82.0	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	600	1125	1182	1200
Current (Amps)	362	325	225	61.5	25.0
Torque (ft-lb)	445	425	625	222	0.00

Information Block

HP	50.0			
Sync. RPM	1200			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wkt	17.2 Lb-Fe			
Rel Wdg	T367601 NONE			
Sound Pressure @ 1M	58 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS519459-1450			
Conn. Diag	A-EE7308T			
Additional Specifications:				
EQUIV CKT (OHMS/ PHASE)				
R1	R2	X1	X2	Xm
0.0790	0.0710	0.4140	0.6750	9.9910



Speed - Torque Curve

